Biological Effects Analyst: Threatened and Endangered Species

Project Title	Biological Effects Analyst: Threatened and Endangered Species
Project Summary	Analyze the effects of development and restoration activities on federally threatened and endangered species, and enter your data into our online information delivery system to provide project recommendations and conservation measures to project proponents.
Country	United States

Project Description

Duties of this position include reviewing available biological data, summarizing relevant species information, and completing data entry for the Effects Pathway Manager (EPM). The EPM is a system designed to explain how different stressors impact our listed species. This is done by creating connections from species needs to stressors impacting those needs and, finally, tracking stressors back to potential project types. The intern will be asked to work independently and with species experts to complete interconnected pathways that clearly depict the ways in which potential changes to the environment may result in impacts to individuals of listed species.

In addition, the intern will use GIS to update species Area of Influence (AOI) shapefiles, which specify the geographic area where projects may impact a species. Updating the accuracy of AOIs will increase efficiency, increase our credibility, and give project proponents accurate information about species in their project area.

Required Skills or Interests

Skill(s)
GIS expertise
Research
Writing

Additional Information

The U.S. Fish and Wildlife Service receives numerous requests for information about which listed species are

found within a project area and how to avoid and minimize impacts to those species. The IPaC decision support system has alleviated some of this workload by supplying species lists to project proponents and is now able to deliver project recommendations and conservation measures. This information is only available, however, if the background data is input into the Effects Pathway Manager (EPM). IPaC and EPM work together and are driven by data. For Region 6 to advance the use of IPaC, a dedicated intern is needed to review and summarize Endangered Species resource needs, effect pathways, and conservation measure data and input the synthesized data into the EPM as part of the next phase of implementation.

The Effects Pathway Manager is part of the larger Service data management system known as the Environmental Conservation Online System (ECOS - http://ecos.fws.gov/ecp/). Information collected and entered into the EPM will help our field offices better evaluate potential impacts from proposed projects and allow Service personnel to focus on issues that have the largest potential conservation impact.

Language Requirements

None